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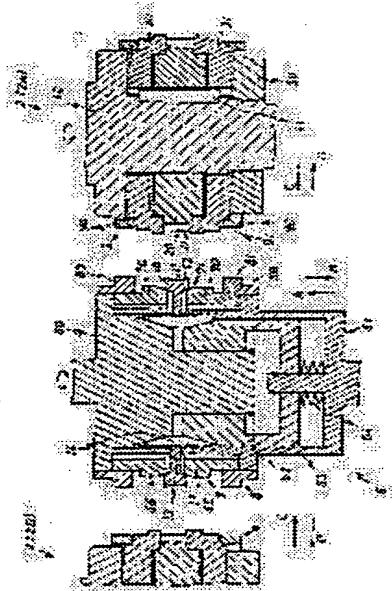
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(54) METHOD AND APPARATUS FOR FORM-ROLLING THIN-WALL METALLIC PART

(57)Abstract:

PURPOSE: To form a high-precision and thin-wall part by performing plastic working while fine indentation displacement of a forming roller is controlled in an elastic contact state between the primary and the secondary displacement adjusting body.

CONSTITUTION: At the final stage of a form rolling process, a displacement adjusting ring 90 of the secondary displacement adjusting body 9 arranged on the same axis with a roller body 20 abuts on the outer peripheral surface of the displacement adjusting ring 80 of the primary displacement adjusting body set to a blank shaft 60 and a press-contact arbor 61 of a blank holding device 6. The indentation displacement by the roller is adjusted to perform fine dimensional control. In other words, the displacement and indentation speed of the roller in the sizing process can be controlled arbitrarily by controlling the indentation force of the roller. By this method, a high-precision and thin-wall metallic part can be obtained.



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